



**PATIENT PRESENTING CLINICAL SIGNS**

Nala Velez

**SPECIES**

Canine

**BREED**

Golden Retriever

**SEX**

Intact Female

History: Nala is a 10 y/o old intact female Golden Retriever that presented to Emergency clinic on 4/21/23 with acute history of 4 days of lethargy, anorexia, weight loss, enlarged abdomen, and foul smell from perivulvar area. No v/d. No vaginal discharge noted. She was started on fluids low rate 15mlh/r, doxycycline 10mg/kg iv sid, protonix 1mg/kg iv sid, cerenia 1mg/kg vi sid, unasyn 30mg/kg iv bid. On 4-22-23 she's weak, lethargic. MM pink. H/L auscult wnl. Fluid filled abdomen. Temp 103.4 F. BP 180mmhg. Mild abd discomfort. US done today and samples for fluid analysis obtained. Plan 1. Abd. US - report pending 2. increase fluid maint - 65ml/hr P-Lyte. 3. continue unasyn 30mg/kg iv bid 4. Continue doxycycline 10mg/nl - 29 cc IV SID. 5. continue cerenia 1mg/kg iv sid. 6. continue protonix 1mg/kg iv sid. 7. consider fentnayl patch for pain - 75mcg. 8. fluid analysis/cytology idexx - 9. hospit .until tomorrow 10. 3 view chest rads recheck Abdominal ultrasound was done to further evaluate.

Abnormal PE/Chem/CBC/UA Results: CBC showed moderate non reg. anemia hct 25%. Mild leukocytosis/neutrophilia 23.7K. Severe thrombocytopenia 32K. 4dx - anaplasma positive. others neg. Chem - T. bili 1.7 (mild hyperbilirubinemia). Thoracic rads - Generalized interstitial pattern, Mild fissure lines, no Cardiomegaly Abdominal radiographs - decreased serosal detail, possible abd. mass fluid collected: was not blood, but mild blood tinged fluid and analysis is pending.

**AGE**

10 years

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**WEIGHT**

64 lbs

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction and appeared normal. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex. The right kidney measured 8.05 cm with slight pyelectasia. The left kidney measured 7.76 cm.

**IMAGING PERFORMED BY**

Dr. Ferrer

**Adrenal Glands**

**HOSPITAL NAME**

Pulse Pet Ultrasound  
Services

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 3.75 x 0.8 cm at the cranial pole and 0.6 cm at the caudal pole. The left adrenal gland measured 3.35 x 0.52 cm.

**REFERRING VET**

Dr. Fonseca

**Spleen**

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The **spleen** revealed multi-focal, hypoechoic, expansive irregular nodules. An overt mass derived from the spleen in the caudal abdomen with cystic component.

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4/21/23



**PATIENT**

**Liver**

Nala Velez

The **liver** revealed a hyperechoic nodule in the left lateral lobe and measured 2.2 cm. Swollen, hypoechoic, irregular parenchyma was noted in the liver. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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**Gastrointestinal**

Golden Retriever

The **gastrointestinal tract** revealed variable areas of intestinal thickening and stasis.

**SEX**

**Pancreas**

Intact Female

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Enhanced, irregular parenchyma was noted in the pancreas with regional nodular changes.

**AGE**

10 years

**Free Abdomen**

**WEIGHT**

64 lbs

The abdomen was riddled with multiple omental masses and a large amount of free fluid.

Multi-focal lymph nodes were enlarged, hypoechoic and irregular.

**INTERPRETED BY**

**ULTRASONOGRAPHIC FINDINGS**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

Diffuse, abdominal neoplasia involving the spleen, omentum and regional lymph nodes.

**IMAGING PERFORMED BY**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Dr. Ferrer

Sarcomatosis of the abdomen is likely. Repeat abdominocentesis with immediate cytospin is recommended and FNA of the hypoechoic, disruptive masses for further definition. The prognosis is poor.

**HOSPITAL NAME**

Pulse Pet Ultrasound  
Services

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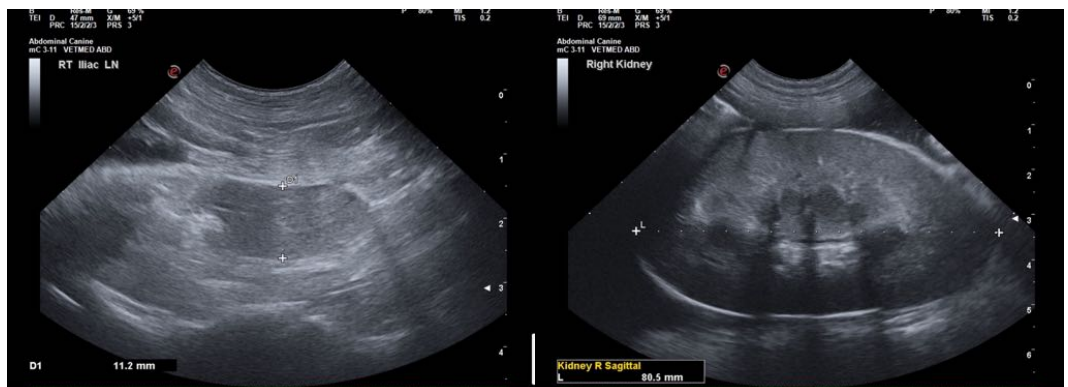
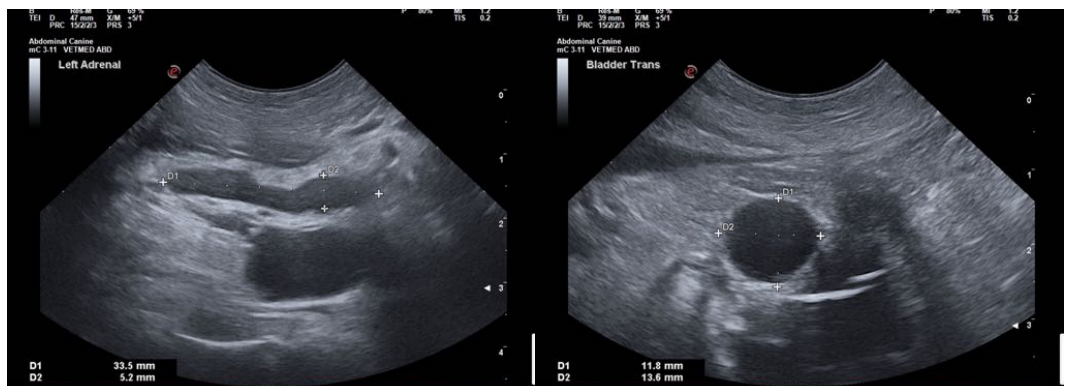
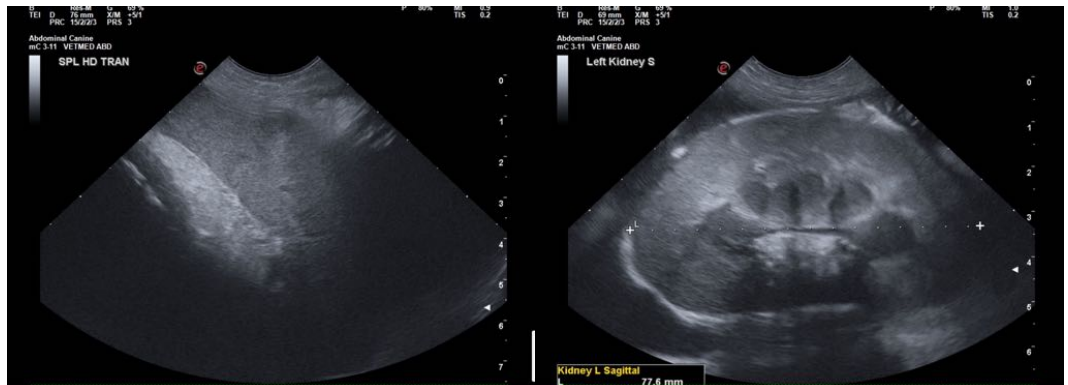
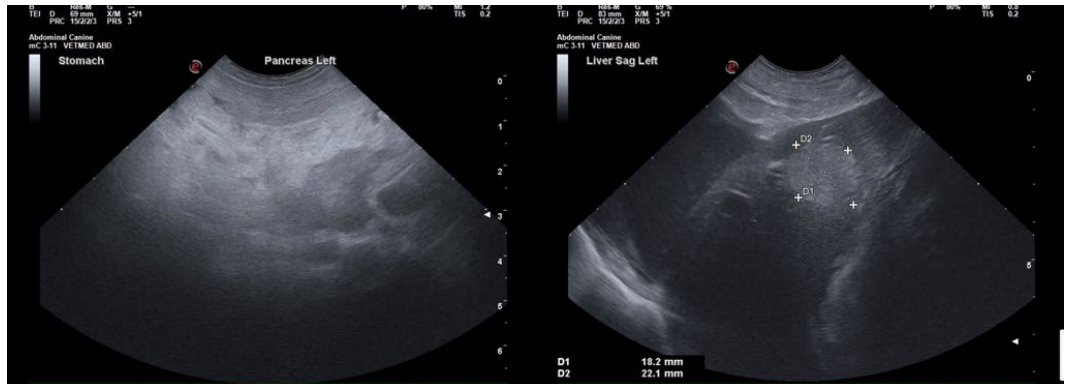
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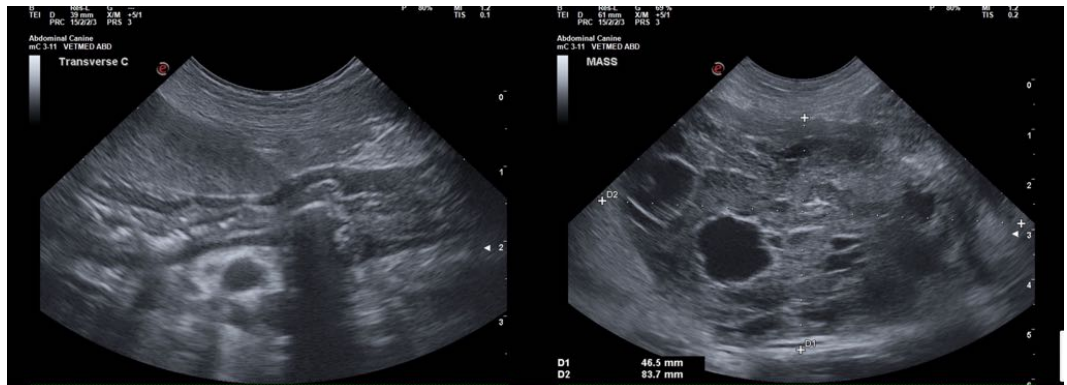
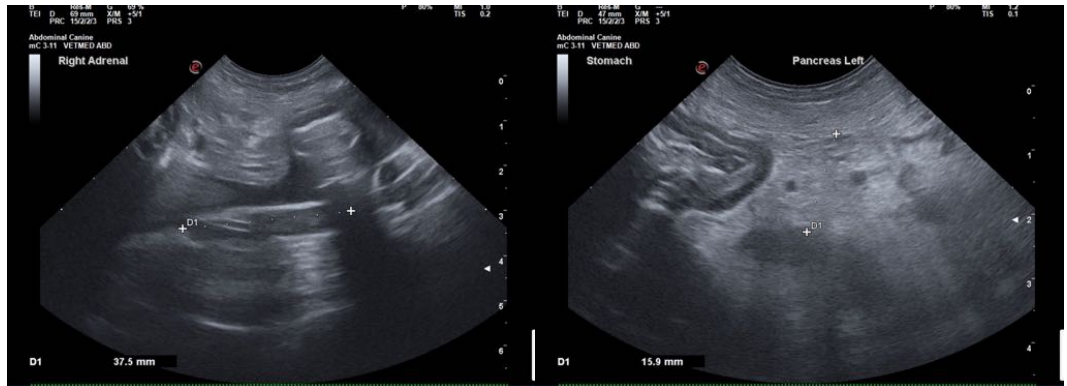
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com